P O S O N I C

PS-EM16-192

8/16 Zone Expander Module

For PS-9192 Control Panel

INSTALLATION MANUAL

VERVION 1.1

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1. INTRODUCTION

The PS-EM16-192 is a microprocessor-controlled 16-zone expander for PS-9192 control panel. Up to 23 pcs of PS-EM16-192 expanders can be added to the control panel with a maximum zone number of 192 zones. Each expander has an tamper switch and power isolator making it ideal for use in a remote location.

2. 6-POSITION DIP SWITCH SETTINGS:

The first thing that must be decided is the starting zone of this particular zone expander. The starting zone must be on a boundary of eight (8) zones. The sixteen (16) zones for this module will move out from this starting position. There are stick-on zone labels to indicate the zone numbers that you select. To set the starting zone, set the dip switch according to the table below:

NOTE: THE POSITION OF ALL SWITCHES IS ONLY UPDATED WHEN THE PS-EM16-192 IS POWERED UP. BEFORE YOU CHANGE THE POSITION OF THESE SWITCHES YOU MUST POWER DOWN THE EXPANDER.

Starting Zone No.	Expander No.	Dip Switch 1	Dip Switch 2	Dip Switch 3	Dip Switch 4	Dip Switch 5
9	22	OFF	OFF	OFF	OFF	OFF
9	23	ON	OFF	OFF	OFF	OFF
17	16	OFF	ON	OFF	OFF	OFF
25	17	ON	ON	OFF	OFF	OFF
33	18	OFF	OFF	ON	OFF	OFF
41	19	ON	OFF	ON	OFF	OFF
49	20	OFF	ON	ON	OFF	OFF
57	21	ON	ON	ON	OFF	OFF
65	96	OFF	OFF	OFF	ON	OFF
73	97	ON	OFF	OFF	ON	OFF
81	98	OFF	ON	OFF	ON	OFF
89	99	ON	ON	OFF	ON	OFF
97	100	OFF	OFF	ON	ON	OFF
105	101	ON	OFF	ON	ON	OFF
113	102	OFF	ON	ON	ON	OFF
121	103	ON	ON	ON	ON	OFF
129	104	OFF	OFF	OFF	OFF	ON
137	105	ON	OFF	OFF	OFF	ON
145	106	OFF	ON	OFF	OFF	ON
153	107	ON	ON	OFF	OFF	ON
161	108	OFF	OFF	ON	OFF	ON
169	109	ON	OFF	ON	OFF	ON
177	110	OFF	ON	ON	OFF	ON
185	111	ON	ON	ON	OFF	ON

Dip switch 6 - **Dip switch** 6 is used to disable the second block of eight (8) zones on this zone expander. This can be done if only an eight- (8) zone expander is required in a particular expander address. **To disable the second group of eight (8) zones on this expander, turn dip switch 6 ON.** In this case, up to 23 expanders can be added to the system creating a total of 192 zones.

3. REGISTER THE PS-EM16-192 EXPANDER

The PS-9192 panel has the ability to automatically find and store in its memory the presence of all keypads, zone expanders, wireless receivers and any other module connected to the data terminal. This allows these modules to be supervised by the control panel. To register the modules, enter the Program Mode of PS-9192 control panel, and when the Program Mode is exited, it will automatically register the devices. The register process takes about 12 seconds, during which time the Service LED will illuminate. User codes will not be accepted during the register process. Once a module is registered, if it is not detected by the control panel, the Service LED will illuminate.

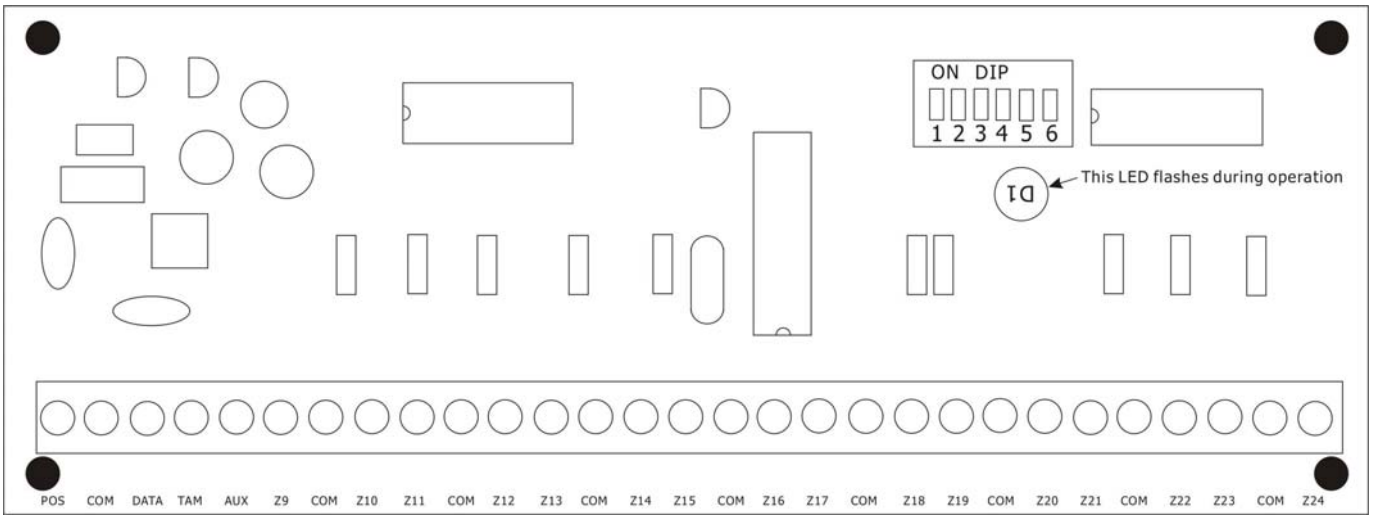
4. WIRING THE PS-EM16-192

Wire the zones according to the wiring diagram on page 4. **NOTE: Any unused zones must have the EOL resistor across it (unless all eight are disabled by dip switch 6).**

5. TERMINAL DESCRIPTION:

Terminal	Description
POS	**Connect to the KP POS terminal of the PS-9192 panel. Current draw is 30mA.**
COM	**Connect to the KP COM terminal of the PS-9192 panel.**
DATA	**Connect to the KP DATA terminal of the PS-9192. (See the wiring diagram for wire specifications.) Max cable length is 750m.**
TAMP	**Connect as shown below. If not used, connect to a COM terminal.**
AUX	**This can be used to power devices directly from PS-EM16-192. Since power is coming from PS-9192, the current draw of these devices must be added to the total current draw of the PS-EM16-192. This output is current limited to 100mA.**
Z9	**Connect to any cable of zone 9 alarm input loop. Connect the other cable of the loop to COM terminal. Open or short of the loop will cause alarm. (See the wiring diagram for examples)**
COM	**Common (–) terminal for zone 9 & 10.**
Z10	**Connect to any cable of zone 10 alarm input loop. Connect the other cable of the loop to COM terminal. Open or short will cause alarm. (See the wiring diagram for examples).**
Z11-Z24	**Connection is same as Z9 & Z10.**

6. WIRING DIAGRAM

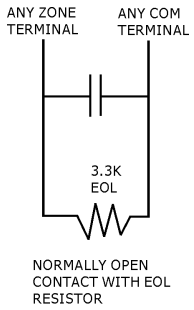

ON DIP
1 2 3 4 5 6
D1
This LED flashes during operation
POS COM DATA TAM AUX Z9 COM Z10 Z11 COM Z12 Z13 COM Z14 Z15 COM Z16 Z17 COM Z18 Z19 COM Z20 Z21 COM Z22 Z23 COM Z24

Pos, Com, and Data - Connect to PS-9192 panel or PS-483 module.

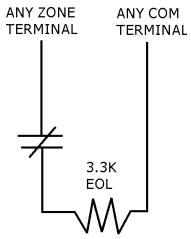
Tam - Connect to Com terminal through a normally closed tamper switch.

Aux - Current limited to 100mA (MUST BE ADDED TO AUX POWER OF PANEL)

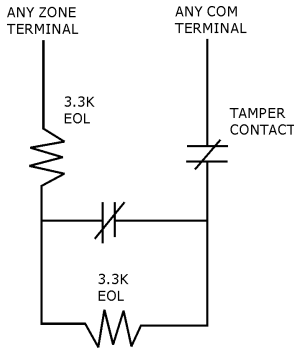
Z9-Z24 - Connect as described in the Terminal Description.



NORMALLY OPEN CONTACT WITH EOL RESISTOR



NORMALLY CLOSED CONTACT WITH EOL RESISTOR



EUROPEAN DOUBLE EOL CONFIGURATION

Maximum Wire Run when connected to PS-9192 panel
If AUX terminal is used: **75m – 24 AWG** **150m – 20 AWG** **300m – 18 AWG** **450m – 16 AWG** **750m – 14 AWG**
If AUX terminal is not used: **75m – 24 AWG** **220m – 24 AWG** **300m – 22 AWG** **600m – 20 AWG** **750m – 18 AWG**

Maximum Wire Run when connected to PS-483 power module
If AUX terminal is used: **75m – 22 AWG** **150m – 18 AWG** **300m – 16 AWG** **450m – 14 AWG** **750m – 12 AWG**
If AUX terminal is not used: **150m – 22 AWG** **220m – 20 AWG** **300m – 20 AWG** **600m – 16 AWG** **750m – 16 AWG**

7. DEFAULT ZONE CONFIGURATIONS

Zones can be programmed to be one of 30 different zones configurations (zone types). Configurations # 17 through 20 can be used for wireless or hardwired zones using European double EOL configuration. The default zone configurations are listed below. These zone configurations can be customized by programming address 110-169.

DATA	DESCRIPTION OF DEFAULT CONFIGURATION
1	**Day Zone**-instant when system is armed trouble zone when system is disarmed.
2	**24-Hour Audible**-Creates an instant yelping siren alarm regardless of the armed state of the control panel
3	**ENTRY/EXIT DELAY 1 -** A trip will start entry delay 1. The lack of a trip during exit delay will enable the Automatic Bypass or Instant mode if so programmed.
4	**FOLLOWER WITH AUTO-BYPASS DISABLED -** This zone will be instant when the system is armed and no entry or exit delays are being timed. It is delayed during entry and exit delay times. This zone will ***not*** bypass in Stay Mode, ***nor*** automatically bypass even if enabled in Segment 1 / Address 23.
5	**INTERIOR FOLLOWER WITH AUTO- BYPASS ENABLED -** This zone will be instant when the system is armed and no entry or exit delay is being timed. It is delayed during entry and exit delay times. This zone will bypass in Stay Mode, and automatically bypass if enabled in Segment 1 of Address 23.
6	**INSTANT -** This zone creates an instant alarm whenever it is tripped and the Armed LED is on.
7	**24-HOUR SILENT -** Creates an instant silent alarm regardless of the armed state of the control panel. It will not display on the keypad.
8	**FIRE -** This zone will illuminate the Fire LED and sound the temporal siren each time the zone is shorted. It will also rapidly flash the Fire LED indicating a trouble if the zone is open.
9	**ENTRY/EXIT DELAY 2 -** A trip will start entry delay 2. The lack of a trip during exit delay will enable the Automatic Bypass or Instant mode if so programmed.

10	**24-HOUR SILENT SUPERVISED -** Creates an instant silent alarm regardless of the armed state of the control panel. It will display on the keypad.
11	**KEYSWITCH ZONE** - This zone type will arm and disarm the partition or partitions of the control panel that resides in each time the zone is shorted. Key-switch arming will report as user #99.
12	**INTERIOR FOLLOWER WITH "CROSS ZONE" ENABLED** - This zone will be Instant when the system is armed and no entry or exit delay is being timed. It is delayed during entry and exit delay times. If a "Cross Zone" is not being timed it will start a "Cross Zone" timer. If a "Cross Zone" is being timed it will create an Instant alarm. This zone will bypass in Stay Mode and automatically bypass when enabled in Segment 1 of Address 23.
13	**INSTANT ENTRY GUARD -** This zone creates an instant alarm whenever it is tripped and the Stay LED is off. It will start an entry delay time 2 if it is tripped and the system is armed and the Stay LED is on.
14	**ENTRY/EXIT DELAY 1 WITH GROUP BYPASS ENABLED -** A trip will start entry delay 1. This zone will bypass when the "Group Bypass" command is entered at the keypad. The lack of a trip during exit delay will enable the Automatic Bypass or Instant mode if so programmed.
15	**INTERIOR FOLLOWER WITH GROUP BYPASS ENABLED -** This zone will be instant when the system is armed and no entry or exit delays are being timed. It is delayed during entry/exit delay times. This zone will bypass when the "Group Bypass" command is entered at the keypad. This zone will bypass in Stay Mode and automatically bypass even if enabled in Segment 1 / Address 23.
16	**INSTANT WITH GROUP BYPASS ENABLED -** This zone creates an instant alarm whenever it is tripped and the Armed LED is on. This zone will bypass when the "Group Bypass" command is entered at the keypad.
17	**ENTRY/EXIT DELAY 1 WITH TAMPER ENABLED -** A trip will start entry delay 1. The lack of a trip during exit delay will enable the Automatic Bypass or Instant mode if so programmed. **This configuration group can be used to enable tamper on a wireless transmitter.**
18	**INTERIOR FOLLOWER WITH TAMPER AND AUTO-BYPASS ENABLED -** This zone will be instant when the system is armed and no entry or exit delay is being timed. It is delayed during entry and exit delay times. This zone will bypass in Stay Mode and automatically bypass if enabled in Segment 1 / Address 23. **This configuration group can be used to enable tamper on a wireless transmitter.**
19	**INSTANT WITH TAMPER ENABLED -** This zone creates an instant alarm whenever it is tripped and the Armed LED is on. **This configuration group can be used to enable tamper on a wireless transmitter.**
20	**ENTRY/EXIT DELAY 2 WITH TAMPER ENABLED -** A trip will start entry delay 2. The lack of a trip during exit delay will enable the Automatic Bypass or Instant mode if so programmed. **This configuration group can be used to enable tamper on a wireless transmitter.**
21	**GAS DETECTION-** Creates an instant alarm regardless of the armed state of the control panel. It will display on the keypad and activate the keypad sounder.
22	**LOW TEMP DETECTION-** Creates an instant silent alarm regardless of the armed state of the control panel. It will display on the keypad and activate the keypad sounder.
23	**HIGH TEMP DETECTION-** Creates an instant silent alarm regardless of the armed state of the control panel. It will display on the keypad and activate the keypad sounder.
24	**MANUAL FIRE -** This zone will illuminate the Fire LED and sound the temporal siren each time the zone is shorted. It will also rapidly flash the Fire LED indicating a trouble if the zone is open.
25	**CHIME ONLY -** Creates no alarm regardless of the armed state of the control panel. It will chime anytime it is faulted and will display on the keypad. Local only.
26	**INTERIOR FOLLOWER DELAY 2 -** This zone will be instant when the system is armed and no entry or exit delay is being timed. It is delayed during entry and exit delay 2 times. This zone will automatically bypass if enabled in Segment 1 of address 23.
27	**INTERIOR FOLLOWER FORCE ARMABLE -** This zone will be instant when the system is armed and no entry or exit delay is being timed. It is delayed during entry and exit delay 1 times. This zone will automatically bypass if enabled in Segment 1 of address 23.
28	**ENTRY/EXIT FORCE ARMABLE DELAY 2 -** A trip will start entry delay 2. The lack of a trip during exit delay will enable the Automatic Bypass or Instant mode if so programmed.

29	**INTERIOR FOLLOWER WITH ACTIVITY SUPERVISION ENABLED -** This zone will be instant when the system is armed and no entry or exit delay is being timed. It is delayed during entry and exit delay times. It will send a report if the zone activity time is reached without a change of state. Refer to Address 40 / Segment 11. This zone will automatically bypass if enabled in Segment 1 of address 23.
30	**ENTRY/EXIT WITH ACTIVITY SUPERVISION ENABLED-** A trip will start entry delay 1. It will send a report if the zone activity time is reached without a change of state. Refer to address 40 / Segment 11. The lack of a trip during exit delay will enable the Automatic Bypass or Instant mode if so programmed.

8. PROGRAMMING THE ZONE CONFIGURATION AND PARTITION FOR EACH ZONE

The programming for all zone information is performed in PS-9192 control panel. For instructions on programming the PS-9192, as well as changing the characteristics of a configuration group, please refer to the Installation Manual of PS-9192. The following programming information is taken from the Installation Manual of PS-9192.

ADDRESS 25 CONFIGURATION GROUP ZONES 1-8

(8 segments, numerical data) Address 25 contains the Configuration Group (Zone type) for zones 1-9. Segment 1 is for zone 1; Segment 8 is for zone 8. Default configurations are found in the table on page 5.

ADDRESS 26 PARTITION SELECT ZONES 1-8

(8 segments, feature selection data) Address 26 is used to select the partition(s) that zones 1-8 reside in. A zone may reside in any combination of the 8 partitions. **If a burglary zone resides in more than 1 partition, it will only be active when all partitions are armed. A zone that resides in more than 1 partition will be reported to its lowest partition.** Address 28 has 8 segments. Segment 1 corresponds to zone 1 and Segment 8 corresponds to zone 8.

Segments 1 - 8:

1 = Partition # 1 3 = Partition # 3 5 = Partition # 5 7 = Partition # 7
2 = Partition # 2 4 = Partition # 4 6 = Partition # 6 8 = Partition # 8

ADDRESS 27 – 36 and 170 - 205

These addresses contain the Configuration Group and Partition Select for Zones 9 – 192. Use the instructions
associated with Address 25 and 26 to program the remaining addresses. Worksheets for these addresses are
included for your convenience.

9. PROGRAMMING WORKSHEETS

ADD	DESCRIPTION	DEFAULT	DATA
25	ZONES 1 – 8 CONFIGURATION GROUP	**6-6-6-6-6-6-6-6**	
26	ZONES 1 - 8 PARTITION SELECT		

Segment	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
Zone	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**
	1	1	1	1	1	1	1	1
	2	2	2	2	2	2	2	2
	3	3	3	3	3	3	3	3
	4	4	4	4	4	4	4	4
	5	5	5	5	5	5	5	5
	6	6	6	6	6	6	6	6
	7	7	7	7	7	7	7	7
	8	8	8	8	8	8	8	8

27	ZONES 9 - 16 CONFIGURATION GROUP	***6-6-6-6-6-6-6-6***	
28	ZONES 9 - 16 PARTITION SELECT		

Segment	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
Zone	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**
	1	1	1	1	1	1	1	1
	2	2	2	2	2	2	2	2
	3	3	3	3	3	3	3	3
	4	4	4	4	4	4	4	4
	5	5	5	5	5	5	5	5
	6	6	6	6	6	6	6	6
	7	7	7	7	7	7	7	7
	8	8	8	8	8	8	8	8

29	ZONES 17 – 24 CONFIGURATION GROUP	***6-6-6-6-6-6-6-6***	
30	ZONES 17 - 24 PARTITION SELECT		

Segment	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
Zone	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**
	1	1	1	1	1	1	1	1
	2	2	2	2	2	2	2	2
	3	3	3	3	3	3	3	3
	4	4	4	4	4	4	4	4
	5	5	5	5	5	5	5	5
	6	6	6	6	6	6	6	6
	7	7	7	7	7	7	7	7
	8	8	8	8	8	8	8	8

31	ZONES 25 – 32 CONFIGURATION GROUP	***6-6-6-6-6-6-6-6***	
32	ZONES 25 – 32 PARTITION SELECT		

Segment	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
Zone	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**
	1	1	1	1	1	1	1	1
	2	2	2	2	2	2	2	2
	3	3	3	3	3	3	3	3
	4	4	4	4	4	4	4	4
	5	5	5	5	5	5	5	5
	6	6	6	6	6	6	6	6
	7	7	7	7	7	7	7	7
	8	8	8	8	8	8	8	8

ADD	DESCRIPTION	*DEFAULT*	DATA
33	ZONES 33 – 40 CONFIGURATION GROUP	*6-6-6-6-6-6-6-6*	
34	ZONES 33 – 40 PARTITION SELECT		

Segment	1	2	3	4	5	6	7	8
Zone	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**
	1	1	1	1	1	1	1	1
	2	2	2	2	2	2	2	2
	3	3	3	3	3	3	3	3
	4	4	4	4	4	4	4	4
	5	5	5	5	5	5	5	5
	6	6	6	6	6	6	6	6
	7	7	7	7	7	7	7	7
	8	8	8	8	8	8	8	8

35	ZONES 41 – 48 CONFIGURATION GROUP	*6-6-6-6-6-6-6-6*	
36	ZONES 41 - 48 PARTITION SELECT		

Segment	1	2	3	4	5	6	7	8
Zone	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**
	1	1	1	1	1	1	1	1
	2	2	2	2	2	2	2	2
	3	3	3	3	3	3	3	3
	4	4	4	4	4	4	4	4
	5	5	5	5	5	5	5	5
	6	6	6	6	6	6	6	6
	7	7	7	7	7	7	7	7
	8	8	8	8	8	8	8	8

170	ZONES 49 – 56 CONFIGURATION GROUP	*6-6-6-6-6-6-6-6*	
171	ZONES 49 – 56 PARTITION SELECT		

Segment	1	2	3	4	5	6	7	8
Zone	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**
	1	1	1	1	1	1	1	1
	2	2	2	2	2	2	2	2
	3	3	3	3	3	3	3	3
	4	4	4	4	4	4	4	4
	5	5	5	5	5	5	5	5
	6	6	6	6	6	6	6	6
	7	7	7	7	7	7	7	7
	8	8	8	8	8	8	8	8

172	ZONES 57 – 64 CONFIGURATION GROUP	*6-6-6-6-6-6-6-6*	
173	ZONES 57 - 64 PARTITION SELECT		

Segment	1	2	3	4	5	6	7	8
Zone	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**
	1	1	1	1	1	1	1	1
	2	2	2	2	2	2	2	2
	3	3	3	3	3	3	3	3
	4	4	4	4	4	4	4	4
	5	5	5	5	5	5	5	5
	6	6	6	6	6	6	6	6
	7	7	7	7	7	7	7	7
	8	8	8	8	8	8	8	8

ADD	DESCRIPTION	*DEFAULT*	DATA
174	ZONES 65 – 72 CONFIGURATION GROUP	***6-6-6-6-6-6-6-6***	
175	ZONES 65 – 72 PARTITION SELECT		

Segment	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
Zone	**65**	**66**	**67**	**68**	**69**	**70**	**71**	**72**
	1	1	1	1	1	1	1	1
	2	2	2	2	2	2	2	2
	3	3	3	3	3	3	3	3
	4	4	4	4	4	4	4	4
	5	5	5	5	5	5	5	5
	6	6	6	6	6	6	6	6
	7	7	7	7	7	7	7	7
	8	8	8	8	8	8	8	8

176	ZONES 73 – 80 CONFIGURATION GROUP	***6-6-6-6-6-6-6-6***	
177	ZONES 73 – 80 PARTITION SELECT		

Segment	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
Zone	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**
	1	1	1	1	1	1	1	1
	2	2	2	2	2	2	2	2
	3	3	3	3	3	3	3	3
	4	4	4	4	4	4	4	4
	5	5	5	5	5	5	5	5
	6	6	6	6	6	6	6	6
	7	7	7	7	7	7	7	7
	8	8	8	8	8	8	8	8

178	ZONES 81 – 88 CONFIGURATION GROUP	***6-6-6-6-6-6-6-6***	
179	ZONES 81 - 88 PARTITION SELECT		

Segment	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
Zone	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**
	1	1	1	1	1	1	1	1
	2	2	2	2	2	2	2	2
	3	3	3	3	3	3	3	3
	4	4	4	4	4	4	4	4
	5	5	5	5	5	5	5	5
	6	6	6	6	6	6	6	6
	7	7	7	7	7	7	7	7
	8	8	8	8	8	8	8	8

180	ZONES 89 – 96 CONFIGURATION GROUP	***6-6-6-6-6-6-6-6***	
181	ZONES 89 - 96 PARTITION SELECT		

Segment	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
Zone	**89**	**90**	**91**	**92**	**93**	**94**	**95**	**96**
	1	1	1	1	1	1	1	1
	2	2	2	2	2	2	2	2
	3	3	3	3	3	3	3	3
	4	4	4	4	4	4	4	4
	5	5	5	5	5	5	5	5
	6	6	6	6	6	6	6	6
	7	7	7	7	7	7	7	7
	8	8	8	8	8	8	8	8

ADD	DESCRIPTION	*DEFAULT*	DATA
182	ZONES 97 – 104 CONFIGURATION GROUP	***6-6-6-6-6-6-6-6***	
183	ZONES 97 – 104 PARTITION SELECT		

Segment	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
Zone	**97**	**98**	**99**	**100**	**101**	**102**	**103**	**104**
	1	1	1	1	1	1	1	1
	2	2	2	2	2	2	2	2
	3	3	3	3	3	3	3	3
	4	4	4	4	4	4	4	4
	5	5	5	5	5	5	5	5
	6	6	6	6	6	6	6	6
	7	7	7	7	7	7	7	7
	8	8	8	8	8	8	8	8

ADD	DESCRIPTION	*DEFAULT*	DATA
184	ZONES 105 – 1112 CONFIGURATION GROUP	***6-6-6-6-6-6-6-6***	
185	ZONES 105 - 112 PARTITION SELECT		

Segment	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
Zone	**105**	**106**	**107**	**108**	**109**	**110**	**111**	**112**
	1	1	1	1	1	1	1	1
	2	2	2	2	2	2	2	2
	3	3	3	3	3	3	3	3
	4	4	4	4	4	4	4	4
	5	5	5	5	5	5	5	5
	6	6	6	6	6	6	6	6
	7	7	7	7	7	7	7	7
	8	8	8	8	8	8	8	8

ADD	DESCRIPTION	*DEFAULT*	DATA
186	ZONES 113 – 120 CONFIGURATION GROUP	***6-6-6-6-6-6-6-6***	
187	ZONES 113 - 120 PARTITION SELECT		

Segment	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
Zone	**113**	**114**	**115**	**116**	**117**	**118**	**119**	**120**
	1	1	1	1	1	1	1	1
	2	2	2	2	2	2	2	2
	3	3	3	3	3	3	3	3
	4	4	4	4	4	4	4	4
	5	5	5	5	5	5	5	5
	6	6	6	6	6	6	6	6
	7	7	7	7	7	7	7	7
	8	8	8	8	8	8	8	8

ADD	DESCRIPTION	*DEFAULT*	DATA
188	ZONES 121 – 128 CONFIGURATION GROUP	***6-6-6-6-6-6-6-6***	
189	ZONES 121 - 128 PARTITION SELECT		

Segment	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
Zone	**121**	**122**	**123**	**124**	**125**	**126**	**127**	**128**
	1	1	1	1	1	1	1	1
	2	2	2	2	2	2	2	2
	3	3	3	3	3	3	3	3
	4	4	4	4	4	4	4	4
	5	5	5	5	5	5	5	5
	6	6	6	6	6	6	6	6
	7	7	7	7	7	7	7	7
	8	8	8	8	8	8	8	8

ADD	DESCRIPTION	*DEFAULT*	DATA
190	ZONES 129 – 136 CONFIGURATION GROUP	*6-6-6-6-6-6-6-6*	
191	ZONES 129 - 136 PARTITION SELECT		

Segment	1	2	3	4	5	6	7	8
Zone	**129**	**130**	**131**	**132**	**133**	**134**	**135**	**136**
	1	1	1	1	1	1	1	1
	2	2	2	2	2	2	2	2
	3	3	3	3	3	3	3	3
	4	4	4	4	4	4	4	4
	5	5	5	5	5	5	5	5
	6	6	6	6	6	6	6	6
	7	7	7	7	7	7	7	7
	8	8	8	8	8	8	8	8

192	ZONES 137 – 144 CONFIGURATION GROUP	*6-6-6-6-6-6-6-6*	
193	ZONES 137 – 144 PARTITION SELECT		

Segment	1	2	3	4	5	6	7	8
Zone	**137**	**138**	**139**	**140**	**141**	**142**	**143**	**144**
	1	1	1	1	1	1	1	1
	2	2	2	2	2	2	2	2
	3	3	3	3	3	3	3	3
	4	4	4	4	4	4	4	4
	5	5	5	5	5	5	5	5
	6	6	6	6	6	6	6	6
	7	7	7	7	7	7	7	7
	8	8	8	8	8	8	8	8

194	ZONES 145 – 152 CONFIGURATION GROUP	*6-6-6-6-6-6-6-6*	
195	ZONES 145 - 152 PARTITION SELECT		

Segment	1	2	3	4	5	6	7	8
Zone	**145**	**146**	**147**	**148**	**149**	**150**	**151**	**152**
	1	1	1	1	1	1	1	1
	2	2	2	2	2	2	2	2
	3	3	3	3	3	3	3	3
	4	4	4	4	4	4	4	4
	5	5	5	5	5	5	5	5
	6	6	6	6	6	6	6	6
	7	7	7	7	7	7	7	7
	8	8	8	8	8	8	8	8

196	ZONES 153 – 160 CONFIGURATION GROUP	*6-6-6-6-6-6-6-6*	
197	ZONES 153 - 160 PARTITION SELECT		

Segment	1	2	3	4	5	6	7	8
Zone	**153**	**154**	**155**	**156**	**157**	**158**	**159**	**160**
	1	1	1	1	1	1	1	1
	2	2	2	2	2	2	2	2
	3	3	3	3	3	3	3	3
	4	4	4	4	4	4	4	4
	5	5	5	5	5	5	5	5
	6	6	6	6	6	6	6	6
	7	7	7	7	7	7	7	7
	8	8	8	8	8	8	8	8

ADD	DESCRIPTION	*DEFAULT*	DATA
198	ZONES 161 – 168 CONFIGURATION GROUP	*6-6-6-6-6-6-6-6*	
199	ZONES 161 – 168 PARTITION SELECT		

Segment	1	2	3	4	5	6	7	8
Zone	**161**	**162**	**163**	**164**	**165**	**166**	**167**	**168**
	1	1	1	1	1	1	1	1
	2	2	2	2	2	2	2	2
	3	3	3	3	3	3	3	3
	4	4	4	4	4	4	4	4
	5	5	5	5	5	5	5	5
	6	6	6	6	6	6	6	6
	7	7	7	7	7	7	7	7
	8	8	8	8	8	8	8	8

200	ZONES 169 – 176 CONFIGURATION GROUP	*6-6-6-6-6-6-6-6*	
201	ZONES 169 - 176 PARTITION SELECT		

Segment	1	2	3	4	5	6	7	8
Zone	**169**	**170**	**171**	**172**	**173**	**174**	**175**	**176**
	1	1	1	1	1	1	1	1
	2	2	2	2	2	2	2	2
	3	3	3	3	3	3	3	3
	4	4	4	4	4	4	4	4
	5	5	5	5	5	5	5	5
	6	6	6	6	6	6	6	6
	7	7	7	7	7	7	7	7
	8	8	8	8	8	8	8	8

202	ZONES 177 – 184 CONFIGURATION GROUP	*6-6-6-6-6-6-6-6*	
203	ZONES 177 - 184 PARTITION SELECT		

Segment	1	2	3	4	5	6	7	8
Zone	**177**	**178**	**179**	**180**	**181**	**182**	**183**	**184**
	1	1	1	1	1	1	1	1
	2	2	2	2	2	2	2	2
	3	3	3	3	3	3	3	3
	4	4	4	4	4	4	4	4
	5	5	5	5	5	5	5	5
	6	6	6	6	6	6	6	6
	7	7	7	7	7	7	7	7
	8	8	8	8	8	8	8	8

204	ZONES 185 – 192 CONFIGURATION GROUP	*6-6-6-6-6-6-6-6*	
205	ZONES 185 - 192 PARTITION SELECT		

Segment	1	2	3	4	5	6	7	8
Zone	**185**	**186**	**187**	**188**	**189**	**190**	**191**	**192**
	1	1	1	1	1	1	1	1
	2	2	2	2	2	2	2	2
	3	3	3	3	3	3	3	3
	4	4	4	4	4	4	4	4
	5	5	5	5	5	5	5	5
	6	6	6	6	6	6	6	6
	7	7	7	7	7	7	7	7
	8	8	8	8	8	8	8	8

9. SPECIFICATIONS

Input Power	**12VDC Supplied from PS-9192 or PS-483**
AUX Power Output	**Power supply to other devices, max. 100mA**
Current Consumption	**30mA**
Loop Resistance	**300 ohms Maximum**
Loop Reponse	**Selectable 50mS or 500mS**
Operating Temperature	**0 to 50 degrees C**
Dimensions	**152 x 56mm**
Weight	**67 g**